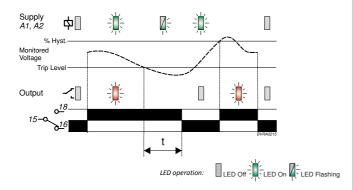
**Battery Voltage Relay** 





- □ \*NEW\* 17.5mm DIN rail housing
- Microprocessor based
- Suited to 12V and 24V batteries
- Monitors own supply and detects and Under voltage condition
- Adjustment for Under voltage trip level (9 28V)
- Adjustment for Time delay (from an Under voltage condition)
- 1 x SPDT relay output 8A
- Green LED indication for supply status
- Red LED indication for relay status

#### FUNCTION DIAGRAM



#### INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY.

Installation work must be carried out by qualified personnel.

Connect the unit as required taking note of the polarity of the connections. Terminal A1 is the positive
connection and A2 the negative.

# Setting the unit.

- Set the Under voltage "Trip Level (V)" 4 adjustment to the voltage required.
- Set the "Delay (t)" 3 to minimum.

#### Applying power.

- Apply power and the green "Power supply" 1 and red "Relay" 2 LED's will illuminate, the relay will energise and contacts 15 and 18 will close. Refer to the troubleshooting table if the unit fails to operate correctly.
- If the supply voltage drops below the trip level setting, the green LED will start to flash. The relay will
  then de-energise (contacts 15 and 18 open) after the delay period "t" and the red LED will extinguish.
  The green LED will then remain permanently lit.
- When the voltage increases above the trip level + hysteresis, then relay will re-energise and red LED illuminate.

### Troubleshooting.

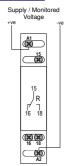
The table below shows the status of the unit during a fault condition.

Supply fault	Green LED	Red LED	Relay
No supply	Off	Off	De-energised
Under voltage condition (during timing)	Flashing	On	Energised for set delay (t)
Under voltage condition (after timing)	On	Off	De-energised

Supply/monitoring voltage			
U (A1, A2):	12 – 24V DC		
Supply variation:	75 – 125% U		
Power consumption (max.):	3W		
Monitoring mode:	Under voltage		
Trip level:	9 – 28V DC		
Hysteresis:	≈ 5% of trip level (factory set)		
Setting accuracy:	± 10%		
Repeat accuracy:	± 0.5% at constant conditions		
Response time:	≈ 100mS		
Time delay (t):	0 – 30 Sec. (± 5%)		
	Note: actual delay (t) = a	djustable delay + response tim	
Power on delay (Td):	≈ 1 sec. (worst case = Td x 2)		
Power on indication:	Green LED		
Relay status indication:	Red LED		
Ambient temp:	-20 to +60°C		
Relative humidity:	+95%		
Output (15, 16, 18):	SPDT relay		
Output rating:	AC1	250V 8A (2000VA)	
	AC15	250V 5A (no), 3A (nc)	
	DC1	25V 8A (200W)	
Electrical life:	≥ 150,000 ops at rated load		
Dielectric voltage:	2kV AC (rms) IEC 60947-1		
Rated impulse withstand voltage:	4kV (1.2/50μS) IEC 60664		
Housing:	Orange flame retardant	UL94	
Weight:	70g		
Mounting option:	On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.		
Terminal conductor size	≤ 2 x 2.5mm² solid or stranded		
	Conforms to IEC. CE, C and RoHS Compliant.		

|電壓正常時 15/18通 (N/O)

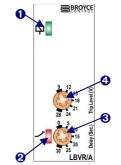
## • CONNECTION DIAGRAM

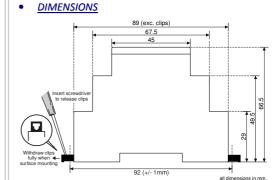


## SETTING DETAILS

 Power supply status (Green) LED
 Relay output status (Red) LED

"Delay" adjustment
 "Under" trip level
 adjustment





EMC: Immunity/Emissions to EN 61000-6



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